

# Residential ESS

LiFePO4 Lithium Battery Pack  
Portable Model



### Product Features:



Higher Safe Performance and Longer Cycle Life  
With breaker and fuse



High Scalability  
Up to 15pcs to connect in parallel



Wide Compatibility  
Compatible with most of the leading inverter brands



Advanced Battery Management System  
Smart BMS from famous brands, to monitor the battery's temperature, current, prevent over-current and etc. Take good control of the charging and discharging of battery to max. the lifespan



Environmentally Friendly  
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG-E48280-LV	PNG-E51280-LV
Nominal Voltage	48V	51.2V
Nominal Capacity	280Ah	
Nominal Energy	13.44kWh	14.34kWh
Output Voltage Range	40.5-54.75V	43.2-58.4V
Charge Voltage Range	48-54.75V	51.2-58.4V
Discharge Cut-off Voltage	40.5V	43.2V
Max. Charge/ Discharge Current	200A	
Recommend Charge Current (Continuous)	70A	
Scalability	Up to 15pcs connected in parallel	
Depth of Discharge (DOD)	90%/25°C/0.5C, SOC≥80%	
Display Type	LCD Screen	
Protection Level	IP54(Indoor)	
Working Temperature Range	Charge: 0°C~+55°C. Discharge: -20°C~+55°C	
Storage Temperature Range	-10°C~+30°C	
Humidity	5%~95% RH	
Cycle Life	≥8000cycles	
Protection	Built-in smart BMS, Breaker, Fuse	
Communication Port	CAN / RS485	
Warranty	5years	
Installation	Wall-Mounted	
Cooling Mode	Air-cooling	
Dimension(L*W*H)	550*270*728mm	
Weight	114kgs	120kgs

### Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances

#### 1.Charging Management

- a. Pls use the lithium battery charger.      b. It's forbidden to charge the battery under 0°C.

#### 2. Discharging Management

- a. Pls charge the battery in time after the battery discharging cut-off to protect the battery cells.  
b. Please avoid constant discharging with high-current (>1C), in case of over-heat.

#### 3. Cautions

- a. It's forbidden to disassemble, puncture or crash the battery.      b. It's forbidden to immerse the battery into the water or expose to the fire.  
c. It's forbidden to mix using the old and new batteries or different brands of batteries.

